LCD / LCM SPECIFICATION

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司

曜凌光電股份有限公司
Raystar Optronics, Inc.
T: +886-4-2565-0761 | F: +886-4-2565-0760
salescontact@raystar-optronics.com | www.raystar-optronics.com

RX1602I3

General Specification

The features is described as follow:

- Number of Characters: 16 Characters x 2 Lines
- Module Dimension: 66.0 x 28.0 x 9.3 mm
- View Area: 40.0 x 9.98 mm
- Active Area: 38.0 x 7.98 mm
- Dot Size: 0.36 x 0.43 mm
- Dot Pitch: 0.41 x 0.48 mm
- Character Size: 2.00 x 3.79 mm
- Character Pitch: 2.40 x 4.19 mm
- Duty: 1/16, 1/5 Bias
- Backlight Type: LED
- IC: ST7032i

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Interface Pin Function

Pin No.	Symbol	Level	Description
1	VDD	P	Power supply
2	VSS	P	Ground
3	SDA	-	(In I2C interface DB7 (SDA) is input data. SDA and SCL must connect to I2C bus (I2C bus is to connect a resister between SDA/SCL and the power of I2C bus).
4	SCL	-	(In I2C interface DB6 (SCL) is clock input. SDA and SCL must connect to I2C bus (I2C bus is to connect a resister between SDA/SCL and the power of I2C bus).
5	RST	-	RESET (Low active)
6	A	-	LED+
7	K	-	LED-
8	NC	-	No Connection

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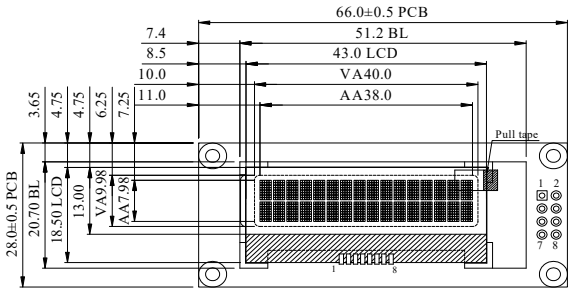
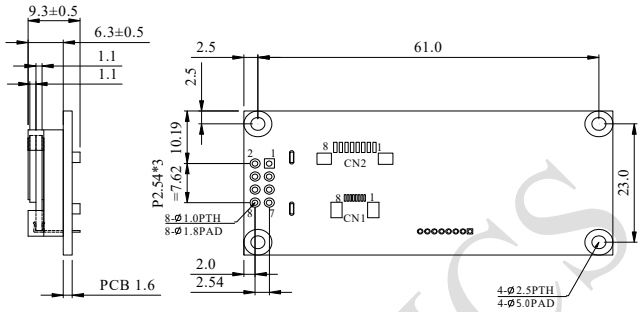
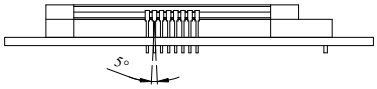
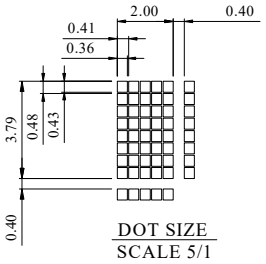
Contour Drawing









PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VDD	5	RST
2	VSS	6	A
3	SDA	7	K
4	SCL	8	NC

The non-specified tolerance of dimension is ±0.3mm.

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_{IN}	-0.3	—	V_{DD}+0.3	V
Power Supply Voltage	V_{DD}-V_{SS}	-0.3	—	+6.0	V
LCD Driver Voltage	V_{LCD}	2.7	—	7.0	V

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Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}-V_{SS}	–	3.0	3.3	3.5	V
Supply Voltage For LCD	V_{LCD}	Ta=-20℃	–	–	–	V
		Ta=25℃	4.3	4.5	4.7	V
		Ta=70℃	–	–	–	V
Input High Volt	V_{IH}	–	0.7 V_{DD}	–	V_{DD}	V
Input Low Volt	V_{IL}	–	–	–	0.2 V_{DD}	V
Output High Volt	V_{OH}	–	0.8 V_{DD}	–	V_{DD}	V
Output Low Volt	V_{OL}	–	–	–	0.2V_{DD}	V
Supply Current (No include LED Backlight)	I_{DD}	–	–	0.2	1	mA

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